



## SEAL COATING:

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- Chip Seals
- Dense-Graded Seal Coats
- Sand Seals
- Fog Seals
- Rejuvenating Seals
- Liquid Road®

**MCA**  
PROCESSES



## THE MCA ADVANTAGE

With the MCA Advantage, you get a partner and advisor who will consult with you about designs, specifications, technical services, processes, and material selection. By developing innovative, custom-designed products that offer additional benefits such as peak performance in unique conditions, improved field performance, and greater environmental and health benefits, the MCA Advantage provides significant long-term cost savings, resulting in a lower “total cost of ownership.”

### SEAL COATING

Seal coating is a broad term used to describe several types of asphalt-aggregate applications that are less than 25 mm thick and are applied to any kind of road surface, such as existing asphalt, Portland cement concrete pavement or a primed or granular base.

Seals can be placed as a single lift or in multiple lifts depending on the traffic demands and the conditions of the existing surface.

### CHIP SEALS

A chip seal, commonly referred to as a seal coat, is primarily made up of one-sized aggregate that can be either dirty or washed.

### DENSE-GRADED SEAL COATS

A dense-graded seal coat is defined as a seal coat that uses a well-graded aggregate rolled into a high float emulsified asphalt.

### SAND SEALS

A sand seal is a spray application of asphalt emulsion followed by a light covering of fine aggregate such as clean sand or screenings. Although this is a simple operation, it can be useful in correcting a number of pavement flaws.

### FOG SEALS

A fog seal is a light application of asphalt emulsion to an existing paved-asphalt surface. This type of maintenance treatment is primarily employed as an impervious seal that will slow the rate of weathering in the underlying pavement.

### REJUVENATING SEALS

A rejuvenating seal consists of a single application of a rejuvenating emulsion to an aged road surface in order

to restore the chemical balance at the surface and at some small depth below.

### LIQUID ROAD®

Liquid Road® is a high performance, fibre-reinforced asphalt emulsion blended with polymers, mineral aggregates, and special surfactants to create superior adhesion, flexibility, and durability in the pavement surface. The product can be used as a seal for oxidized and aged pavement or for a newly-placed chip seal.

## FEATURES AND BENEFITS

- Emulsions can be used with damp aggregate, which is preferred
- The process does not require elevated temperatures, making it environmentally friendly
- The use of emulsions, significantly reduces the VOC emissions typically associated with the use of cutback asphalts
- Custom formulas can be created for existing environmental conditions and can incorporate available aggregates
- Polymer-modified emulsions can be used to enhance the asphalt's durability, stability, impermeability, and early stone retention as well as to reduce flushing and bleeding
- Renews weathered pavements
- Available in various textures: improved skid resistance
- Fine aggregate treatments can improve street sweeping
- Reduces ravelling and restores a uniform cover
- Prevents the intrusion of moisture and air
- Seals very small cracks and surface voids
- Enriches and coats weathered aggregate particles at the surface
- Delineates shoulders from traffic lanes



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